

ONE HEALTH

Washington Conference



One Health Conference in Washington State
August 16, 2023 | Ellensburg, WA



Wednesday, August 16, 2023

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| 8:00 - 9:00 | Coffee & Check-in |
| 9:00 - 9:30 | Welcome
Umair A. Shah, WA Department of Health
Andrew Morse, Central WA University
Amber Itle, WA Department of Agriculture |
| 9:30 - 9:50 | Indigenous One Health: Connecting Traditional Ecological Knowledge and Western Science
Michelle Pollowitz, University of Washington |
| 9:50 - 10:10 | One Health Needs Assessment in Washington State, 2022-2023
Hanna Oltean, WA Department of Health |
| 10:10 - 10:20 | Q&A |
| 10:20 - 10:35 | Break |
| 10:35 - 10:55 | How One Local Health Jurisdiction Created a Culture of One Health Agency Wide
Heather Hill and Amanda Mason, Benton-Franklin Health District |
| 10:55 - 11:05 | Wildlife Rehabilitation and One Health
Jenn Mannas, WA Department of Fish and Wildlife |
| 11:05 - 11:15 | INSIGHT to Action: One Health Surveillance System Strengthening
Horacio Chacon-Torrico, University of Washington |
| 11:15 - 11:25 | Q&A |
| 11:25 - 11:35 | Evaluation of Antimicrobial Opinions and Uses in Small and Large Animal Veterinary Practice in Washington State
Elizabeth Rott, University of Washington |
| 11:25 - 11:45 | Association Between Isolation Source, Clonal Composition, and Antibiotic Resistance Genes in <i>Escherichia coli</i> Samples Collected in Washington State
Mary Jewell, University of Washington |

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11:45 - 11:55	Q&A
11:55 - 12:45	Lunch
12:45 - 1:30	Postering and Networking Session
1:30 - 1:50	SARS Co-V-2 infection in pets sharing households with COVID19- positive persons: the CAPS study in Washington State Peter Rabinowitz, Washington Center for One Health Research
1:50 - 2:00	Public Health Investigation of <i>Rickettsia felis</i> Infection in King County, WA, 2022 BreeAnna Dell, Public Health Seattle King County
2:00 - 2:20	Sniffing Out Danger: Exploring the Spillover Potential of Highly Pathogenic Avian Influenza Virus (H5N1) Using Genomics in British Columbia's Wild Skunk Population Shannon Russel, British Columbia Center for Disease Control
2:20 - 2:35	Q&A
2:35 - 2:50	Break
2:50 - 3:00	Leveraging Wastewater-Based Epidemiology in Addressing the Threat of Antimicrobial Resistance Breanna McArdle, Wastewater Based Epidemiology Program, WA Department of Health Environmental Public Health
3:00 - 3:10	Increase in <i>Vibrio parahaemolyticus</i> infections in King County Following an Extreme Heat Event, Summer 2021 Jenny Lenahan, Public Health Seattle King County
3:10 - 3:20	Washington One Water – WOW! Jocelyn Winz Jones, WA Department of Health, Environmental Public Health
3:20 - 3:30	Implications of Climate Patterns on Harmful Algal Blooms and the Subsequent Marine Biotoxins Zachary Mangus, WA Department of Health
3:30 - 3:40	Crisis & Emergency Risk Communications: Understanding the CDC's CERC Toolkit for Rapid Use in Disease Outbreak and Environmental Response Emily O'Donnell-Pazderka, WA Department of Health
3:40 - 3:55	Q&A
3:55 - 4:10	Wrap Up Beth Lipton, WA Department of Health
4:10 - 5:00	Networking Hour

Posters

Characterizing tick and small rodent ecology in an agroecosystem in eastern Washington and the Idaho panhandle using a landscape ecology framework

Anna Catherine Grady, Washington State University

Anthropogenic drivers of rodent-borne and rodent-associated pathogen transmission in agroecosystems across the Americas, a scoping review

Anna Catherine Grady, Washington State University

Human and Animal Health Systems Adaptations to Climate Change: Identifying and Mapping Research Priorities

Molly Parker, Washington State University

Microbiome Comparison of Dairy Workers and Community Controls in the Yakima Valley

Jorge Rivera-Gonzalez, University of Washington

Current Use of the COHERE Standards in One Health Publications - Analysis of Impact Six Years After Publication

Elizabeth Traylor, University of Washington

Comparison of COVID-19 Genomes in Dogs, Cats, and Humans: Washington State

Anna Baines, University of Washington

Occurrence of Multi-Drug Resistant *Escherichia coli* Pathovars in Preharvest Environments: Implications for One Health and Fresh Produce Safety

Chidozie Declan Iwu, University of Washington

Updated Findings from the WISAR Database

Hannah Fenelon, University of Washington

West Nile Virus Surveillance in Washington State: Trends and Future Developments

Mary Chan, WA Department of Health

Rural Neighborhoods: Healing community gardens and people

Shawna Beese, Washington State University

Prioritizing Community Environmental Concerns: Insights from a Community Survey

Amy Wilson, Kathleen Deane, Megan Holt, Clark County

Early Development of Point-of-Care Detection of *Neisseria Gonorrhoeae* by Loop-Mediated Isothermal Amplification

Sammi Cheung

Speaker Biographies

Michelle Pollowitz

Michelle Pollowitz recently graduated from the University of Washington School of Public Health with a Master of Science in Environmental Health and a concentration in One Health. She will be presenting her thesis work which explored the overlaps and gaps between One Health and Traditional Ecological Knowledge. She now works at the Urban Indian Health Institute, a division of the Seattle Indian Health Board, as a program manager for the Tribal Epidemiology Center program.

Hanna Oltean

Hanna Oltean is a senior epidemiologist at the Washington State Department of Health. She currently leads the Zoonotic and Vector-borne Disease Program, in the Office of Communicable Disease Epidemiology. Her work focuses on disease prevention and surveillance system design, implementation, and evaluation using a One Health approach.

Heather Hill

Heather Hill, RN, BSN is the Deputy to the Health Officer for Benton-Franklin Health District. In her 40 years at BFHD the majority of her work has been as a supervisor in the areas of Communicable Disease Investigation and Response and Clinic Management.

Amanda Mason

Amanda Mason is the Communications & Public Affairs Manager for Benton-Franklin Health District (BFHD), serving as the Chief Brand Strategist and Public Information Officer (PIO). As a former journalist, she enjoys developing a marketing strategy and strategic media messaging for the more than 66 programs at BFHD.

Jenn Mannas

Jen Mannas is a Wildlife Biologist for Washington Department of Fish and Wildlife, who oversees two statewide programs: Wildlife Rehabilitation and Falconry. Jen has a Master's degree in Wildlife Management from Montana State University and has been in the wildlife biology field for almost 20 years. She has had the privilege to work with mammalian and avian species across the United States and in Antarctica. She has been with the Department in her current role for two years and her job duties include permitting wildlife rehabilitators and falconers, helping permittees stay in compliance, and spreading the word about both programs.

Horacio Chacon-Torrico

Horacio Chacon Torrico is a PhD student in Global Health Metrics at the University of Washington and a Research Assistant at the International Training and Education Center for Health (I-TECH). He has a deep interest in improving surveillance systems and the utilization of data in Low- and Middle-Income Countries (LMICs). His work at I-TECH focuses on leveraging data to inform decision-making and improve health outcomes.

Mary Jewell

Mary Jewell recently graduated from the University of Washington with a master's degree in epidemiology. This presentation is a result of her thesis research on antibiotic resistance in

E. coli samples isolated in the state of Washington. She is currently working as a genomic epidemiologist at the Utah State Department of Health in Salt Lake City.

Peter Rabinowitz

Peter Rabinowitz MD MPH is Associate Professor in the Departments of Environmental and Occupational Health Sciences, Family Medicine, Global Health, Epidemiology, and Medicine (Infectious Disease), University of Washington. He directs the UW Center for One Health Research that explores linkages between the health of humans, animals, and their shared environment including: zoonotic infectious diseases at the human-animal interface, antimicrobial resistance, and animals as "sentinels" of environmental health hazards and climate change. Dr. Rabinowitz co-directs the UW Alliance for Pandemic Preparedness, provides clinical care for patients with zoonotic infectious diseases, and collaborates with Washington State University on the Seattle One Health Clinic providing integrated primary care to people and their pets experiencing homelessness.

BreeAnna Dell

Bree Dell is a veterinarian and epidemiologist at Public Health – Seattle & King County. She currently leads the One Health Investigations and Zoonotic and Emerging Infections investigation and response teams.

Shannon Russel

Dr. Russell is a senior scientist in translational genomics at the British Columbia (BC) Center for Disease Control Public Health Laboratory. She works on building genomic surveillance tools and reporting strategies for pathogens of public health importance, particularly in a One Health context. She works closely with human and animal health sectors in BC and nationally to build integrated surveillance programs and deliver genomics data that can be used to inform public health measures, outbreak response, and infection prevention and control policy.

Breanna McArdle

Breanna McArdle is the epidemiologist supervisor for the Washington Wastewater-Based Epidemiology program. She holds a BS in statistics from San Diego State University and an MPH in epidemiology from Oregon Health and Science University.

Jenny Lenahan

Jennifer Lenahan is an epidemiologist with the Communicable Disease Epidemiology and Immunization Section at Public Health – Seattle & King County. In her current role, she is the technical lead for the section's general communicable diseases work and supports the section's One Health work.

Jocelyn Winz Jones

Jocelyn has 20 years of dedicated public service in the legislative and executive branches of state government. She is currently a Rules Coordinator and Policy Planner at the Dept of Health in the Division of Environmental Public Health, in the Office of the Assistant Secretary. In this role she is leading a team to write the on-site non potable water systems rule that will allow for water reuse at the building and district scale. Prior to joining the Department of Health, Jocelyn was the Senior Water Quality Rules Planner at the

Department of Ecology. In this role she was the lead rule writer and project manager responsible for the adoption of the Reclaimed Water rule, chapter 173-219 WAC.

Zachary Mangus

Zach Mangus is an environmental scientist working as a lab technician for the Department of Health at the Public Health Laboratory. He recently finished a master's thesis at the Evergreen State College and is currently working on a publication involving his work there.

Emily O'Donnell Pazderka

Emily O'Donnell-Pazderka is the Preparedness Content Strategist at the Washington State Department of Health. She holds an MA in History focused on Global Migration Patterns and Cold War Nuclear Armament and is almost finished with her MPH in Risk Communications, Emergency Preparedness, and Environmental Health through the Johns Hopkins Bloomberg School of Public Health. Emily is passionate about the intersections between disability and environmental justice, and she is committed to furthering health equity through the development of risk communications strategies and materials that are accessible to all Washingtonians.

Anna Catherine Grady

Catherine Grady is a master's student studying Immunology and Infectious Disease working with Drs. Pilar Fernandez and Stephanie Seifert at the Paul G. Allen School for Global Health at Washington State University. Her research interests apply epidemiology, disease, and landscape ecology to zoonotic and vector-borne diseases to understand how human-animal interactions impact global health inequities. Currently, Catherine's work focuses on rodent and tick populations and hazards in human modified agroecosystems. Catherine holds a BA in Public Health and Animal Behavior from Franklin and Marshall College.

Molly Parker

Ms. Parker is a doctoral student and Research Assistant at WSU College of Nursing with a background in community health, HIV prevention, and cardiovascular-surgical nursing. Her current research interests integrate One Health and Planetary Health concepts to look at the interconnectedness of environment and health, in particular occupational health and wildfire smoke exposure and upstream sources of health disparities.

Jorge Rivera-Gonzalez

Jorge Rivera-Gonzalez is a 2nd-year Environmental Health Sciences Ph.D. student at the University of Washington. He received his MPH from the Colorado School of Public Health. His research focuses on workers' health and safety, biosecurity, and translating research into practice in Spanish-speaking communities.

Elizabeth Traylor

Elizabeth Traylor (she/her) is a graduate student at UW completing an MPH in One Health, with interests in zoonotic diseases, veterinary medicine, disaster management, and global health. She has extensive experience in both research and clinical labs, ranging from human gut microbiome research to clinical veterinary pathology.

Anna Baines

Anna Baines is a veterinarian and Data Manager and Analyst at the International Training and Education Center for Health (I-TECH) at the University of Washington. She is interested in learning more about how bioinformatics can be applied to better understand viral spillover.

Chidozie Declan Iwu

Chidozie is a doctoral candidate in the Department of Epidemiology, University of Washington. He is passionate about infectious diseases epidemiology and global public health. He is also interested in understanding the transmission dynamics of emerging/re-emerging microbial diseases using the One-health framework. Chidozie has authored/co-authored more than 30 peer-reviewed articles in high impact journals.

Hannah Fenelon

Hannah is the data manager and analyst for the Center for One Health Research (COHR) at the University of Washington. The COHR does research on antimicrobial resistance, emerging pathogens, zoonoses, and other projects with a one health focus. The poster features human, animal, and retail meat antimicrobial susceptibility data from the Washington Integrated Surveillance for Antibiotic Resistance (WISAR).

Mary Chan

Mary Chan is an epidemiologist in the Zoonotic & Vector-borne Disease program at WA State Dept. of Health. She works often on mosquito surveillance and rabies data. She enjoys using code to understand trends and think about the different ways to display them.

Shawna Beese

As assistant professor of rural health promotion for the Washington State University Extension through the College of Agricultural, Human, and Natural Resource Sciences, my research program has three broad categories: a) research regarding neighborhood determinants of health and rurality, b) resource needs assessments for rural residents and project development, and c) applied research toward the development of my emerging Rural Neighborhoods program. With this poster, I share the preliminary findings of my study, addressing behavioral health in community gardens: A pilot feasibility study to test evidence-based curriculum delivery in a unique setting.

Kathaleen Deane

Kathleen (she/her) is a Program Manager at Clark County Public Health where she manages a new program that has three focuses: environmental epidemiology, environmental health outreach and education, and zoonotic/vector-borne disease. With this work she hopes to move forward climate change and environmental justice issues within Southwest Washington. Kathaleen holds a master's degree in public health (M.P.H.) from the University of New England and a bachelor's degree in biology and global diseases (B.S) from Cedar Crest College.

Megan Holt

Megan (she/her) is the Environmental Health Educator for Clark County Public Health. Megan creates educational materials, outreach events, and community-based programming

for each program in environmental public health which include food safety, water resources and protection, hazardous assessment, solid waste enforcement, recreational water safety, pollution prevention assistance, and environmental education outreach and policy. Survey results were collected largely at community outreach and education events.

Amy Wilson

Amy (she/her) is an Environmental Epidemiologist at Clark County Public Health. Her work involves epidemiologic and evaluation planning and design, data collection, analysis, and visualization/mapping of environmental health indicators in Clark County. Amy received her Master of Public Health in Epidemiology from the OHSU-PSU School of Public Health, and Bachelor of Science in Public Health from Oregon State University.

Sammi Cheung

Sammi Cheung is a second-year student pursuing an MS in One Health within the Department of Environmental and Occupational Health Sciences at the University of Washington. She graduated from UW with a BS in Medical Laboratory Science (MLS) to currently serve the local and national patient population as a MLS at the UW Medicine Molecular Microbiology clinical lab. In the future, Sammi plans to continue research in public health and infectious diseases through a PhD program.

Lauren Sarkissian

Lauren Sarkissian, MPH, is a health services consultant within the Zoonotic and Vector-borne Disease Program at the Washington State Department of Health. Lauren uses her background in infectious disease research, science communication, and epidemiology to create health education materials that promote disease prevention and mitigation within vulnerable communities.

Beth Lipton

Beth Lipton, DVM MPH CPH, is a public health veterinarian at Washington State Department of Health. She has previously worked at Public Health Seattle King County and worked as an epidemiologist at Kitsap Public Health District for seven years. Beth graduated from Tufts University School of Veterinary Medicine in 2001 and earned her MPH degree from the University of Washington in 2007. Beth served on the Washington State Public Health Association Board of Directors for three terms, from 2010 to 2015. She enjoys her current role as public health veterinarian as it is a great blend of her education and experience, working on zoonotic disease education, prevention and control, One Health efforts, the health impacts of climate change, and emergency preparedness and response.

